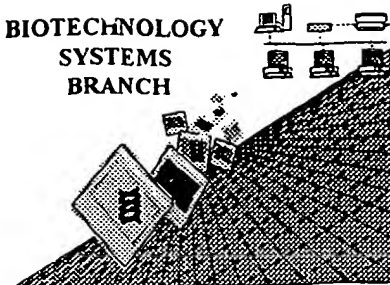


Huynh.

RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



PH#8

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/403,882

Source: 1644

Date Processed by STIC: 3/6/2001

RECEIVED

MAR 13 2001

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY/

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

1644

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/403,882

DATE: 03/06/2001
TIME: 12:39:49

Input Set : A:\ES.txt
Output Set: N:\CRF3\03062001\I403882.raw

Does Not Comply
Corrected Diskette Needed

P.2

3 <110> APPLICANT: University of California, San Francisco
4 Farinas, Javier
6 <120> TITLE OF INVENTION: Methods and Reagents for Targeting Organic Compounds To Selected
Cellular

RECEIVED

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7 Locations
9 <130> FILE REFERENCE: UCSF1100-3
11 <140> CURRENT APPLICATION NUMBER: 09/403,882
12 <141> CURRENT FILING DATE: 2000-03-20
14 <150> PRIOR APPLICATION NUMBER: 60/081,340
15 <151> PRIOR FILING DATE: 1998-04-09
17 <150> PRIOR APPLICATION NUMBER: 60/081,118
18 <151> PRIOR FILING DATE: 1998-04-08
20 <160> NUMBER OF SEQ ID NOS: 9
22 <170> SOFTWARE: PatentIn version 3.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 951
26 <212> TYPE: DNA
27 <213> ORGANISM: artificial
29 <220> FEATURE:
30 <223> OTHER INFORMATION: single chain antibody
32 <220> FEATURE:
33 <221> NAME/KEY: CDS
34 <222> LOCATION: (1)..(951)
36 <400> SEQUENCE: 1
37 atg gcc gag gtc aag ctg cag gag tca ggg gga ggc tta gtg cag cct 48
38 Met Ala Glu Val Lys Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro
39 1 5 10 15
41 gga ggg tcc cgg aaa ctc tcc tgt gca gcc tct gga ttc act ttc agt 96
42 Gly Gly Ser Arg Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
43 20 25 30
45 agc ttt gga atg cac tgg gtt cgt cag gct cca gag aag ggg ctg gag 144
46 Ser Phe Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu Glu
47 35 40 45
49 tgg gtc gca tat att agt agt ggc agt agt acc atc tac tat gca gac 192
50 Trp Val Ala Tyr Ile Ser Ser Gly Ser Ser Thr Ile Tyr Tyr Ala Asp
51 50 55 60
53 aca gtg aag gga cga ttc acc atc tcc aga gac aat ccc aag aac acc 240
54 Thr Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn Thr
55 65 70 75 80
57 ctg ttc ctg caa atg acc agt cta agg tct gag gac acg gtc atg tat 288
58 Leu Phe Leu Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Val Met Tyr
59 85 90 95
61 tac tgt gca aga gat tac ggg gct tat tgg ggc caa ggg acc acg gtc 336
62 Tyr Cys Ala Arg Asp Tyr Gly Ala Tyr Trp Gly Gln Gly Thr Thr Val
63 100 105 110
65 acc gtc tcc tca ggt gga ggc ggc tca ggc gga ggt ggc tct ggc ggt 384
66 Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
67 115 120 125

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/403,882

DATE: 03/06/2001

TIME: 12:39:49

Input Set : A:\ES.txt

Output Set: N:\CRF3\03062001\I403882.raw

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69 ggc gga tgc gac att gag ctc acc cag tct cca gca atc atg tct gca      432
70 Gly Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro Ala Ile Met Ser Ala
71      130      135      140
73 tct cca ggg gag agg gtc acc atg acc tgc agt gcc agt tca agt gta      480
74 Ser Pro Gly Glu Arg Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val
75 145      150      155      160
77 agg tac atg aac tgg ttc caa cag aag tca ggc acc tcc ccc aaa aga      528
78 Arg Tyr Met Asn Trp Phe Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg
79      165      170      175
81 tgg att tat gac aca tcc aaa ctg tct tct gga gtc cct gct cgc ttc      576
82 Trp Ile Tyr Asp Thr Ser Lys Leu Ser Ser Gly Val Pro Ala Arg Phe
83      180      185      190
85 agt ggc agt ggg tct ggg acc tct tac tct ctc aca atc agc agc atg      624
86 Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met
87      195      200      205
89 gag gct gaa gat gct gcc act tac tac tgc cag cag tgg agt agt aac      672
90 Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn
91      210      215      220
93 cca ctc acg ttc ggt gct ggg acc aag ctg gag ctg aaa cgg gcg gcc      720
94 Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Ala Ala
95 225      230      235      240
97 gca gaa caa aaa ctc atc tca gaa gag gat ctg aat ggg gcc gtc gac      768
98 Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Gly Ala Val Asp
99      245      250      255
101 gaa caa aaa ctc atc tca gaa gag gat ctg aat gct gtg ggc cag gac      816
102 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Ala Val Gly Gln Asp
103      260      265      270
105 acg cag gag gtc atc gtg gtg cca cac tcc ttg ccc ttt aag gtg gtg      864
106 Thr Gln Glu Val Ile Val Val Pro His Ser Leu Pro Phe Lys Val Val
107      275      280      285
109 gtg atc tca gcc atc ctg gcc ctg gtg gtg ctc acc atc atc tcc ctt      912
110 Val Ile Ser Ala Ile Leu Ala Leu Val Val Leu Thr Ile Ile Ser Leu
111      290      295      300
113 atc atc ctc atc atg ctt tgg cag aag aag cca cgt tag      951
114 Ile Ile Leu Ile Met Leu Trp Gln Lys Lys Pro Arg
115 305      310      315
118 <210> SEQ ID NO: 2
119 <211> LENGTH: 316
120 <212> TYPE: PRT
121 <213> ORGANISM: artificial
122 <400> SEQUENCE: 2
125 Met Ala Glu Val Lys Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro
126 1      5      10      15
129 Gly Gly Ser Arg Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
130      20      25      30
133 Ser Phe Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu Glu
134      35      40      45
137 Trp Val Ala Tyr Ile Ser Ser Gly Ser Ser Thr Ile Tyr Tyr Ala Asp
138      50      55      60

```

see item 12 on EMBL Summary Sheet

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/403,882

DATE: 03/06/2001

TIME: 12:39:49

Input Set : A:\ES.txt

Output Set: N:\CRF3\03062001\I403882.raw

```

141 Thr Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn Thr
142 65 70 75 80
145 Leu Phe Leu Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Val Met Tyr
146 85 90 95
149 Tyr Cys Ala Arg Asp Tyr Gly Ala Tyr Trp Gly Gln Gly Thr Thr Val
150 100 105 110
153 Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
154 115 120 125
157 Gly Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro Ala Ile Met Ser Ala
158 130 135 140
161 Ser Pro Gly Glu Arg Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val
162 145 150 155 160
165 Arg Tyr Met Asn Trp Phe Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg
166 165 170 175
169 Trp Ile Tyr Asp Thr Ser Lys Leu Ser Ser Gly Val Pro Ala Arg Phe
170 180 185 190
173 Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met
174 195 200 205
177 Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn
178 210 215 220
181 Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Ala Ala
182 225 230 235 240
185 Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Gly Ala Val Asp
186 245 250 255
189 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Ala Val Gly Gln Asp
190 260 265 270
193 Thr Gln Glu Val Ile Val Val Pro His Ser Leu Pro Phe Lys Val Val
194 275 280 285
197 Val Ile Ser Ala Ile Leu Ala Leu Val Val Leu Thr Ile Ile Ser Leu
198 290 295 300
201 Ile Ile Leu Ile Met Leu Trp Gln Lys Lys Pro Arg
202 305 310 315

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205 <210> SEQ ID NO: 3

206 <211> LENGTH: 32

207 <212> TYPE: DNA

208 <213> ORGANISM: artificial

210 <220> FEATURE:

211 <223> OTHER INFORMATION: antisense primer containing Xba I site

213 <400> SEQUENCE: 3

214 gctctagact ggcccacagc attcagatcc tc

32

217 <210> SEQ ID NO: 4

218 <211> LENGTH: 28

219 <212> TYPE: DNA

220 <213> ORGANISM: artificial

222 <220> FEATURE:

223 <223> OTHER INFORMATION: sense primer containing EcoRI

225 <400> SEQUENCE: 4

226 ggaattcgcc gaggtcaagc tgcaggag

28

229 <210> SEQ ID NO: 5

RAW SEQUENCE LISTING DATE: 03/06/2001
 PATENT APPLICATION: US/09/403,882 TIME: 12:39:49

Input Set : A:\ES.txt
 Output Set: N:\CRF3\03062001\I403882.raw

230 <211> LENGTH: 5
 231 <212> TYPE: PRT
 232 <213> ORGANISM: artificial
 234 <220> FEATURE:
 235 <223> OTHER INFORMATION: localization sequence targeting the nucleus
 237 <400> SEQUENCE: 5
 239 Lys Lys Lys Arg Lys
 240 1 5
 242 <210> SEQ ID NO: 6
 243 <211> LENGTH: 26
 244 <212> TYPE: PRT
 245 <213> ORGANISM: artificial
 247 <220> FEATURE:
 248 <223> OTHER INFORMATION: localization sequence targeting the mitochondrion
 250 <400> SEQUENCE: 6
 252 Met Leu Arg Thr Ser Ser Leu Phe Thr Arg Arg Val Gln Pro Ser Leu
 253 1 5 10 15
 255 Phe Arg Asn Ile Leu Arg Leu Gln Ser Thr
 256 20 25
 258 <210> SEQ ID NO: 7
 259 <211> LENGTH: 4
 260 <212> TYPE: PRT
 261 <213> ORGANISM: artificial
 263 <220> FEATURE:
 264 <223> OTHER INFORMATION: localization sequence targeting endoplasmic reticulum
 266 <400> SEQUENCE: 7
 268 Lys Asp Glu Leu
 269 1
 271 <210> SEQ ID NO: 8
 272 <211> LENGTH: 4
 273 <212> TYPE: PRT
 274 <213> ORGANISM: artificial
 276 <220> FEATURE:
 277 <223> OTHER INFORMATION: insertion into plasma membrane
 279 <220> FEATURE:
 280 <221> NAME/KEY: VARIANT
 281 <222> LOCATION: (1)..(4)
 282 <223> OTHER INFORMATION: any amino acid
 285 <400> SEQUENCE: 8
 OK> 287 Cys Cys Xaa Xaa
 288 1
 290 <210> SEQ ID NO: 9
 291 <211> LENGTH: 6
 292 <212> TYPE: PRT
 293 <213> ORGANISM: artificial
 295 <220> FEATURE:
 296 <223> OTHER INFORMATION: specific targeting sequences c-terminal
 298 <400> SEQUENCE: 9
 300 Ser Glu Lys Asp Glu Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/403,882
DATE: 03/06/2001
TIME: 12:39:49
Input Set : A:\ES.txt
Output Set: N:\CRF3\03062001\I403882.raw

301 1

5

VERIFICATION SUMMARY

DATE: 03/06/2001

PATENT APPLICATION: US/09/403,882

TIME: 12:39:50

Input Set : A:\ES.txt

Output Set: N:\CRF3\03062001\I403882.raw

L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8